

GOVERNMENT OF ANDHRA PRADESH  
ABSTRACT

National Rural Employment Guarantee Scheme (NREGS-AP) - Horticulture- Scheme of Coffee Plantation in Paderu- Implementation arrangements-Orders-issued.

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PANCHAYAT RAJ AND RURAL DEVELOPMENT (RD-II) DEPARTMENT

G.O.Ms.No: 506

Date:27.12.2008

Read the following:

- 1) G.O.Ms.No.27, PR&RD (RD-II) Dept, dated: 28.01.2006
- 2) Minutes of meeting on Coffee Plantation held on 07.06.08,O/o Commissioner, Rural Development, Hyderabad.
- 3) RC.No.44//2007/A2, dated: 06.12.07 of Project Officer, ITDA, Paderu.
- 4) Lr.No 1752/Horticulture/Coffee/08,dated 17.12.2008 of Commissioner, Rural Development, Hyderabad.

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**ORDER**

Andhra Pradesh Rural Employment Guarantee Scheme under the provision of NREGS Act 2005 vide reference cited above envisages creation of durable assets that enhances the livelihood resource base of the rural poor. Category 4 works under schedule 1 of the Act gives an opportunity for the farmers from BPL families to take up Horticulture and land development to increase the productivity of the marginal lands of the rain fed regions. Government has initiated Horticulture plantations in poor people land from 2007-08 under NREGS in convergence with National Horticulture mission and AP Micro irrigation Programme. The Programme was initially promoted for four Horticulture crops and expanded to 13 crops in 2008-09.

In the reference 3<sup>rd</sup> read above, the Project Officer ITDA, Paderu submitted the proposals for inclusion of Coffee plantation under NREGS in convergence with TRICOR (Tribal welfare Department) in the agency areas of Paderu as the region is suitable for cultivation of coffee. Since 1985 the coffee plantations are taken up by the ITDA farmers in an area of 82,391 acres with active support of TRICOR and Coffee Board. Average annual income from coffee is about Rs 8000 to 10000 per acre.

**Salient Features of the Proposals are:**

1. The proposal seeks to converge the strengths and resources of 3 Departments of Government namely Department of Rural Development, Tribal Welfare Department and Coffee Board to formulate a comprehensive scheme for raising coffee plantation including maintenance until plantation reaches commercial age.
2. Raising of nursery for Coffee, Advance shade & Pepper and shade plantations are proposed to be assisted by TRICOR (Tribal welfare department) and raising of Coffee plantations shall be assisted by NREGS. Coffee Board will provide technical oversight and capacity building to farmers and marketing tie up.
3. Pepper is proposed as inter crop in coffee plantations. About Rs.20,000-30,000 per acre is expected annual income.
4. In order to support plantation activity on long term basis, it is also proposed to raise Coffee and shade plant nurseries in Paderu.
5. In next five years starting from 2009-10, it is proposed to cover 1.00 lakh acres of Coffee in Paderu agency area @ 20,000 acres every year
6. The total cost of raising nursery and plantation for 1.00 lakh acres including maintenance is estimated to be Rs 297 crores which will be funded by Tribal Welfare Department and Rural Development Department under existing programmes.

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Commissioner Rural Development has scrutinized the proposal with reference to NREGS guidelines and submitted the proposals for approval of the coffee project to be taken up in Paderu agency area. The project is prepared under NREGS in convergence with TRICOR (Tribal Welfare) and Coffee board of Visakhapatnam.

The Government after careful examination of the proposals submitted by the Commissioner Rural Development for cultivation of coffee plantation in Paderu agency areas here by accord permission for taking up 1.00 lakh acres of Coffee plantations.

Plantation shall be taken up only in the villages identified to be suitable for taking up Coffee plantations by Coffee board and ITDA Paderu.

Every year during November-December, PO ITDA Paderu shall take up an independent third party evaluation of the plantation done in the previous financial year to verify survival, conditions of plantation and other quality issue.

Government hereby constitutes a State level committee on Coffee plantation. The composition of the committee shall be as follows:

Chairman	:	Principal Secretary, RD
Co-Chairman	:	Principal Secretary, Tribal Welfare
Member convener	:	Commissioner, Tribal Welfare
Member	:	Commissioner, RD
Co-Member	:	PO, ITDA, Paderu

The committee shall provide policy support to the programme from time to time. The committee shall also consider the findings of the 3rd party evaluation and take decisions there on to strengthen the programme.

The scheme for Coffee plantation in Paderu is annexed to this G.O.

A copy of this order is available on the internet and can be accessed at <http://www.rd.ap.gov.in>

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

K. RAJU,  
PRINCIPAL SECERETARY TO GOVERNMENT(RD)

To  
The Commissioner, Rural Development, A.P. Hyderabad  
The Commissioner, Tribal welfare, A.P. Hyderabad  
The District collector and Magistrate of Visakhapatnam District  
The Project Officer, ITDA, Paderu, Visakhapatnam District  
The Regional Manager Coffee Board, Visakhapatnam  
The Project Director, DWMA, Visakhapatnam District  
The Chief Executive Officer, Zilla Parishad Visakhapatnam District.  
The Commissioner, AMR – A.P. Academy for Rural Development, Rajendranagar, Hyderabad.  
Copy to: O.S.D. to Minister for Rural Development.  
P.S. to Prl. Secretary to Government (RD)  
P.R. & R.D. (Genl.) Department (2 copies)  
S.F./S.C.

// FORWARDED : : BY ORDER //

SECTION OFFICER.

## **SCHEME FOR COFFEE PLANTATIONS IN PADERU**

### **Introduction**

Paderu in Vishakapatnam District is a tribal belt with annual rainfall of 1250 mm at an altitude of 3650 feet MSL. Warm weather with high rainfall for a period of 6 months is congenial for coffee plantations. The rich forest cover in the tribal area dwindled due to podu cultivation and the poor tribal farmers with primitive cultivation and low productivity force the farmers to work as daily labourers. Coffee plantation programme in ITDA was initiated in 1985 with the help of Coffee Board and of late pepper as an intercrop is yielding good returns to the farmers with very little investment. Organic Coffee of Araku in Paderu has good market potential with brand name "Araku Emerald". Every year about 10,000 acres of new plantations are raised by ITDA which is low compared to the demand. Further the old low yielding plantations need to be replanted. To encourage coffee cultivation with pepper as intercrop tribal farmers are provided with 100% assistance under TRICOR and National Rural Employment Guarantee scheme (NREGS)

**About the crop:** Coffee (*Coffea Arabica*) is the second important commodity in the world trade after petroleum products.

Coffee is grown under the shade of forest cover and a well distributed annual rain-fall of 1600 to 2500mm and good shade of ever green trees are ideal for its cultivation. it grows well at elevations between 900 to 1200 meters with a temperature of 15 to 25 C and 70 – 80% relative humidity. The blossom showers during March – April (25 to 40mm) and the backing showers during summer months April – May (50 to 57mm) are congenial for better fruit-set and development.

The climatic conditions prevailing in Paderu belt of Vizag district is most suitable for coffee cultivation, particularly organic coffee.

### **1. Objective of supporting coffee plantation:**

- To strengthen the livelihood resource base of the poor tribes by creating durable assets.
- To control soil erosion and other ecological problems of Jhum (Podu) cultivation.

### **2. Non-Negotiables:**

- a) Small and marginal farmers from BPL families with minimum coverage of 75% of tribes.
- b) Cluster approach
- c) A given plantation should have at least 75% survival to be eligible for maintenance in second year and 90% survival to be eligible for maintenance from third year onwards.
- d) Execution of work through CIGs

### **3. Criteria for selection of farmers:**

- a) Small and marginal farmers belonging to BPL families with minimum coverage of 75% of STs
- b) Farmer should have title over Land.
- c) Assistance limited to 5 acres per family

### **4. Proposed major activities in the Scheme**

The ITDA, Paderu is the nodal agency for the implementation of the Project.

#### **A) Raising of Advance Shade Plantations**

Coffee is a shade loving plant and economic yields will be obtained only if grown under shade. A shade tree should be fast growing and spreading to allow a

uniform amount of filter light. Its root system should be deep, so that it does not compete with coffee plant for food and moisture. Hence shade plants like Silver oak, mango wild variety, Jack fruit, Jamun and Kamala plants can be grown as shade plants. Detailed list of tasks which will be assisted is given below.

**i) Raising of Nurseries for Shade plantations (Assistance under TRICOR)**

1. Land leveling and preparation of nursery beds
2. Cost of seed
3. Watering
4. Transport of seedling
5. Cost of poly-bags
6. Bag filling and trans-planting of seedlings
7. Cost of tools and implements
8. Pandal erection for providing shade in secondary nursery

**ii) Raising Shade plantations (Assistance under TRICOR)**

1. Bush clearance
2. Line marking and pit digging
3. Transport of plant material
4. Filling pits and planting
5. Soil working
6. Fire path

**B) Raising of Coffee plantations with Pepper as intercrop**

The primary nursery is raised in beds of 1 m x 6 m. The seeds germinate in about 46 days. The seedlings are transplanted in secondary nursery beds when seedlings are 3 months old. 8 months old seedlings are generally used for planting purpose. The season of planting is September to October. 8 months old seedlings are planted in the main field with a spacing of 2 m x 2 m under shade. 3 years of silver oak is suitable as a shade plant to coffee. Pepper is grown as inter crop in coffee plantations. Average yield of pepper is about 200-300 kg per acre with an average income of Rs.20, 000-30,000 per acre. Detailed list of tasks which will be assisted is given below.

**i) Raising of Coffee & Pepper Nurseries (Assistance under TRICOR)**

1. Land preparation
2. Raised primary and secondary nursery beds
3. Cost of poly-bags, bag filling, watering
4. Collection of Jungle soil & organic manures
5. Cost of seed material (coffee seed & other, pepper cuttings)
6. Transport of seedlings
7. Pandal erection & arranging of poly bags
8. Plant protection
9. Weeding & Wee
10. Watering
11. cost of tools and implements

**ii) Raising Coffee Plantations (Assistance under NREGS)**

1. Bush clearance
2. Line marking & Pit Digging
3. Filling of pits & Planting
4. Cost of mixed plants
5. Cost of live fencing
6. Bench terracing and fire path
7. Weeding and soil working
8. Cost of Bio-fertilizers and Bio plant protection
9. Fire path
10. Shade regularation & De suckering
11. Technical guidance to Para worker

TRICOR will fund nursery raising for shade plants, raising of shade plantation, raising of coffee and pepper nurseries. Under NREGS, Rural Development will fund raising coffee plantation which includes maintenance for 4 years i.e., till the plants are ready for harvesting the produce. List of tasks for which farmers will be assisted is given below.

Coffee board shall provide technical guidance to field functionaries and farmers in scientific cultivation, processing and marketing.

## **5. Maintenance:**

- Maintenance for 4 years will be provided under NREGS, including the planting year.
- Details of Raising Nursery for shade Plantations (Annexure-I), Raising of Shade plantations (Annexure-II), Raising of Coffee & Pepper nursery,(Annexure-III) and Raising of Coffee plantations (Annexure-IV)

## **6. Roles and Responsibilities:**

### **a) ITDA Paderu**

- It is the nodal implementing agency
- It shall formulate/prepare action plans and get the approval from Commissioner, Rural Development
- Identify the tribal farmers having the suitable lands in a contiguous area
- Impart training to the farmer on cultivation, processing and marketing
- Maintain the accounts of the project.
- Submit the progress reports and the information as and when required by the Department of Rural Development for sanction and release of funds.

### **b) Department of Rural Development**

- It shall process the inputs provided by Project Officer, ITDA, Paderu and provide the funds for the assistance under NREGS.

### **c) Coffee Board**

- It shall provide the technical guidance to the field functionaries, Officers and farmers for the cultivation on latest scientific practices
- Supervise the activities and guide the farmers in adopting the scientific practices.
- Train farmers in processing the coffee
- Provide infra-structure facilities to the group of farmers
- Guide the farmers in marketing the produce

## **7. Implementation Arrangements:**

- FA of NREGS with Coffee Liaison worker collects applications from farmers and verifies with reference to criteria and fills the data input sheets for the eligible farmers. Farmers taking up the Coffee crop will be formed into a Common Interest Group (CIG). The verification shall be done by Project Horticulture officer with reference to soil suitability.(PHO)
- Data input sheets are prepared for the recommended farmers as a Common Interest Group. The works (equal to number of CIGs in a village) are placed before the Gram Panchayat for approval. The approved works are forwarded to Additional Programme Officer (APO) at mandal level.
- The estimates are generated for each work (CIG wise) at the Mandal Computer center.
- The works along with estimates are forwarded to PO, ITDA / Dist. Collector shall accord administrative sanctions. Technical sanction will be accorded by the Project Horticulture Officer. Once the works are in shelf, APO will issue work commencement letters, muster rolls and measurement book.

- F.A / T.A will give alignment / mark out for pit digging as per specifications. Measurements will be taken by F.A and check measurements by T.A. Super check shall be done by Project Horticulture Officer.
- Raising shade plantations, planting coffee in shade plantations which are ready, raising intercrops, live fencing should be completed as per the schedule.
- Fencing shall be completed before planting activities.
- In order to facilitate smooth execution of works, the farmers should be formed into a common interest group (CIG). CIG members select one Para worker from among them to liaison between farmers, NREGS, ITDA

#### **A) Roles and responsibilities of Para-worker**

- He/She should be active and interested in taking up the responsibilities of the group
- Shall conduct group meetings regularly atleast once in a fortnight (once in a week during planting season) and ensure all members are present,
- Shall record decisions taken in the meetings and act accordingly
- Shall be able to adopt and demonstrate the scientific practices in his field as recommended.
- Shall communicate all instructions and learning received from time to time so as to be adopted by all members.
- Shall maintain transparency in maintenance of accounts.
- Shall maintain all prescribed records and submit vouchers for the expenditure on fort-night basis for settlement of advances.

A joint account shall be opened for each CIG. Para-worker and one of the farmers shall be the joint signatories. The advances are released into the CIG account for the activities to be carried out by farmers in two or more installments as per seasonality. Para-worker shall release the amount to the farmers to carry out the operations in their fields. The Para-worker shall demonstrate the activities in his field and thus guide the farmers to do in their fields. Para-workers shall collect the vouchers from the farmers for the activities completed and submits to the field assistant once in a fortnight for settlement of advances received by the CIG.

#### **B) Following records / registers shall be maintained by CIG**

- 1) Minutes book
- 2) Cash book
- 3) Ledger
- 4) Vouchers
- 5) Stock issue register

Each farmer shall be given a farmer card showing the details of activities, the assistance amount to be received for the area planted and the amount actually received.

#### **C) Role of Coffee Liaison Worker ( CLW)**

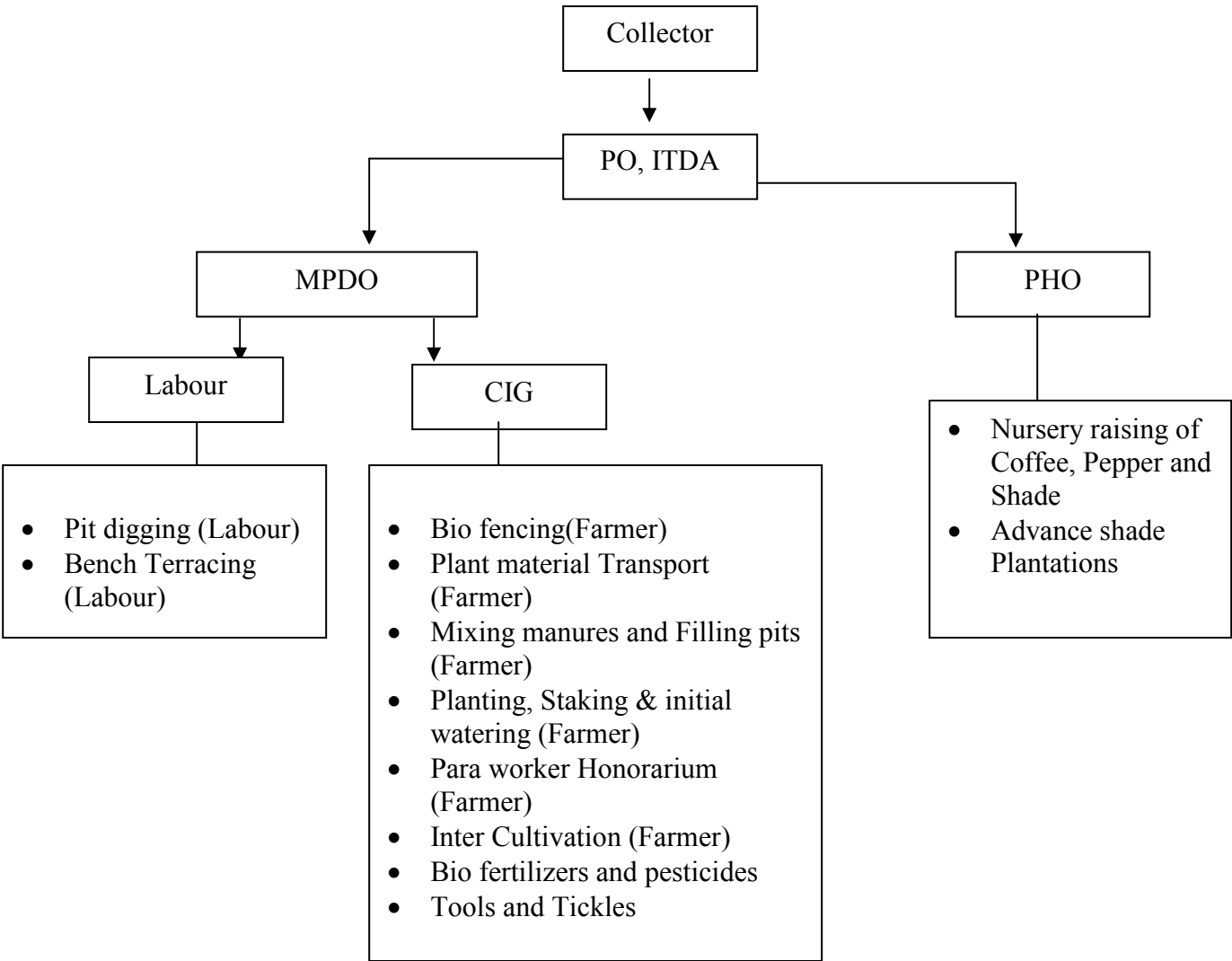
- For every 4 to 5 villages one CLW will function and coordinate plantation activities with the assistance of the FA / TA
- Give technical advice in the maintenance of the plantations and organize farmers training at the field level.
- To Co-ordinate with FA, A.P.O. and P.H.O. The Para-worker and Coffee Extension Worker will be thoroughly trained on all aspects of coffee plantation by Coffee board.

### **8. Procurement of Plant Material**

Since plant material forms a vital part, all procurement will be done under the guidance of Coffee board. Plant material shall be procured under guidance of Coffee board. Coffee board shall provide necessary guidance to ITDA on improved varieties suitable for the area and facilitate in procuring the plant material from authorized agencies. The required plant material for shade plantations inter crop (pepper) and

coffee plantations shall be raised in the vicinity of plantations by the tribes. The assistance given for all the material components viz., plant material and bio-fertilizers etc., under NREGS, the guidelines already issued shall be followed.

**Fund Flow**



**10. Registers and Records to be maintained:**

**A) Nursery level:**

1. Stock & distribution Register

**B) Village level:**

1. Plantation Register
2. Administration and Technical sanctions, Work commencement letters for NREGA activities
3. Muster rolls and material procurement sheets
4. Plantation activities monitoring Register

**C) Mandal level:**

1. Administration and Technical sanctions, Work commencement letters for NREGA activities
2. Muster rolls and vouchers

**D) Project level:**

1. Administrative sanction

## **11. Monitoring:**

Technical Assistant, Coffee Liaison worker (CLW) and field assistant shall inspect 100% plantations taken up under NREGS. PHO, APO & MPDO shall inspect 50% of the plantations in the Mandal atleast once in a quarter. P.O., ITDA and PD, DWMA shall inspect atleast 10% of the plantation blocks randomly in a quarter. PHO and MPDO shall review the Coffee plantations on scheduled week days with mandal staff and CLW. Project Officer, ITDA/P.D., DWMA shall conduct common monthly meetings with MPDOs.



Annexure-I

A) Shade Plantations -

1)Detailed Estimate of Raising advance Shade Nursery (2.0 Lakhs)

					TRICOR		
S. No	Operation	Quantity	Unit	Rate (Rs)	Labour	Material	Total Cost
1	2	3	4	5	6	7	8
	A) Primary Nursery						
1	Cost of Land Leveling for Primary Nursery	0.5	Acre	2000	1000		1000
2	Land Preparation -raising of primary beds 0.25x3.3x1mt beds) (Collection of Jungle Soil, Preparation of beds, Seedsowing, Collection of paddy straw etc., )	40	Bed	175	7000		7000
3	Cost of Silveroak seed (@ 0.5Kg per each Bed)	20	Kg	500		10000	10000
4	Maintenance of primary Nursery for one months (watering twice daily, weeding for every 3 days )	40	Bed	100	4000		4000
5	Transport of Primary Nursery (Naked) seedlings to secondary Nursery manually @ 10000 seedlings perday	200000	10000	100	2000		2000
6	Cost of Tools and Implements	1	set	250		250	250
Total (A)					14000	10250	24250

**B) Secondary Nursery**

1	Raising of Secondary nursery - Land Levelling and Frame Work ( @ 1000 No.s for each bed)	200	Bed	100	20000		20000
2	Cost of poly bags @ 650No.s Per Kg (4"x7"x150guage)	310	Kg	150	0	46500	46500
3	Collection of Jungle Soil, Bag filling and Transplanting (@ 1000 No.s per bed)	200	Bed	200	40000		40000
4	Pandal erection, and arranging of poly bags ( 6.5x1.1mt Beds)	200	Bed	200	40000		40000
5	Watering and weeding for 2 months (Daily two times)	200	Bed	300	60000		60000
6	Cost of Tools and Implements	20	sets	250		5000	5000
<b>Total (B)</b>				<b>1200</b>	<b>160000</b>	<b>51500</b>	<b>211500</b>
<b>Grand Total (A+B)</b>					<b>174000</b>	<b>61750</b>	<b>235750</b>

Annexure-II

2) Detailed Estimate of Raising Shade Plantations  
Spacing 2x2 mts

S.No	Name of the item	Quantity	Unit	Rate (Rs)	TRICOR		Total
					Labour	Material	
1	Bush clearance	1	Acre	400	400	0	400
2	Cost of Transport of plant material in 45 head loads	900	Nos	0.5	450	0	450
3	Line Marking( Silver oak 2x2 mt and others 10x10mt')	1	Acre	300	300	0	300
4	Digging of pits (0.30 cmx0.30cmx0.30cm)	900	Nos	1.84	1656	0	1656
5	Filling of Pits and planting	900	Nos	450	450	0	450
6	Soil working and Weeding	1	Acre	800	800	0	800
7	Fire path (3.3 mt around the Boundary)	1	Acre	300	300	0	300
	<b>Total</b>				<b>4356</b>	<b>0</b>	<b>4356</b>

Annexure-III

B)Coffee Plantations  
1)Detailed Estimate of Coffee Nursery (2.0 Lakhs+10% additional)

TRICOR							
S No.	Operation	Quantity	Unit	Rate	Labour	Material	Total Cost
1	2	3	4	5	6	7	8
	I) Primary Nursery						
1	Cost of Land Leveling for Primary Nursery	0.5	Acre	2000	1000		1000
2	Land Preparation -raising of primary beds ( 0.25x3.3x1mt beds) (Collection of Jungle Soil, Preparation of beds, Pandal erection, Seedsowing, Collection of paddy straw etc., )	50	Bed	200	10000		10000
3	Cost of Coffee seed (@ 2Kg per each Bed)	100	Kg	200		20000	20000
4	Cost of Mixed Seed (Tasmania, Agave) @ 1Kg seed for bed.	50	Kg	100		5000	5000
5	Maintenance of primary Nursery for 2 months (watering twice daily, weeding for every 3 days )	50	Bed	200	10000		10000
6	Transport of Primary Nursery (Topi stage) seedlings to secondary Nursery manually@ of 4000 seedlings per day	200000	4000	100	5000		5000
7	Cost of Tools and Implements	1	set	250		250	250
SubTotal (A)				3050	26000	25250	51250
II) Secondary Nursery							
1	Raising of Secondary nursery - Land Levelling and Frame Work ( @ 1000 No.s for each bed)	200	Bed	100	20000		20000
2	Cost of poly bags @ 500No.s Per Kg (5"x8"x150guage)	400	Kg	150		60000	60000
3	Collection of Jungle Soil, Bag filling and Transplanting (@ 1000 No.s per bed)	200	Bed	200	40000		40000
4	Pandal erection, and arranging of poly bags ( 6.5x1.1mt Beds)	200	Bed	200	40000		40000

5	Watering and weeding for 3 months (Daily two times)	200	Bed	450	90000		90000
6	Cost of Tools and Implements	20	sets	250		250	250
<b>Sub Total (B)</b>				<b>1350</b>	<b>190000</b>	<b>60250</b>	<b>250250</b>
<b>Total (A+B)</b>					<b>216000</b>	<b>85500</b>	<b>301500</b>

III) Pepper Nursery( @ 10% of the Coffee Nursery)

1	Collection of Jungle Soil, Bag filling and Transplanting (@ 1000 bags per bed)	20	Bed	200	4000		4000
2	Pandal erection, and arranging of poly bags in beds (6.5x1.1 mt Bedsize)	20	Bed	200	4000		4000
3	Cost of Pepper cuttings	20000	Nos	0.5		10000	10000
4	Cost of poly bags @ 500No.s Per Kg (5"x8"x150guage)	40	Kg	150		6000	6000
5	Watering and weeding for 3 months (Daily two times)	20	Bed	450	9000		9000
6	Plant Protection	20	Bed	100	2000		2000
<b>Total</b>					<b>19000</b>	<b>16000</b>	<b>35000</b>

Annexure-IV

2)Detailed Estimate of Raising Coffee plantations

1st year							
S. No	Spacing 2x2 mts	Quantity	Unit	Rate	NREGS		Total
	Name of the item				Labour	Material	
1	Bush clearance	1	Acre	400	400	0	400
2	Cost of Transport of plant material manually	900	Nos	0.5	450	0	450
3	Line Marking( Coffee 2x2m and others 30x30m)	1	Acre	300	300	0	300
4	Cost of Mixed plants (jamun, Jack, Kondamamidi, Jafra etc @ Rs1.00 per each seedling	200	Nos	1		200	200
5	Digging of pits (0.45 mx0.45mx0.45m)	900	Nos	6.2	5580	0	5580
6	Filling of pits and planting	1	Acre	700	700	0	700
7	Weeding & scuffling	1	Acre	800	800	0	800
8	Bench terracing 30 Rows (70X1x0.30 mts per each row)	30	rows	133	3990	0	3990
9	Planting of Live fence	1	Acre	360	360	0	360
10	Fire path (3.3 mt around the Boundary)	1	Acre	300	300	0	300
11	Technical Guidance to Paraworker	1	Acre	240		240	240
	Total				12880	440	13320
2nd year Maintenance							
S. No	Name of the item	Quantity	Unit	Rate	Labour	Material	Total
1	Reopening of Pits and Casualty replacement (25%)	225	Nos	1.5	150	0	150
2	Maintenance of Fire path (3.3mt around the Boundary)	1	Acre	300	300	0	300

3	Maintainence of Fence and Bench teracing, Soil working	1	Acre	1000	1000	0	1000
4	Bio-fertilisers & Plant Protection Chemicals	1	Acre	500	0	500	500
5	Technical Guidance to Paraworker	1	Acre	240	0	240	240
	<b>Total</b>				<b>1450</b>	<b>740</b>	<b>2190</b>

3rd year Maintenance

S. No	Name of the item	Quantity	Unit	Rate	Labour	Material	Total
1	Maintainence of Fence and Bench teracing, Soil working	1	Acre	900	900	0	900
2	Shade regulation & Desuckering	1	Acre	450	450	0	450
3	Bio-fertilisers & Plant Protection Chemicals	1	Acre	500	0	500	500
4	Technical Guidance to Paraworker	1	Acre	240	0	240	240
	<b>Total</b>				<b>1350</b>	<b>740</b>	<b>2090</b>

4th year Maintenance

S. No	Name of the item	Quantity	Unit	Rate	Labour	Material	Total
1	Maintenance of Firepath	1	Acre	100	100	0	100
2	Maintainence of Fence and Bench teracing, Soil working	1	Acre	1000	1000	0	1000
3	Shade regulation & Desuckering	1	Acre	300	300	0	300
4	Bio-fertilisers & Plant Protection Chemicals	1	Acre	500	0	500	500
5	Technical Guidance to Paraworker	1	Acre	240	0	240	240
	<b>Total</b>				<b>1400</b>	<b>740</b>	<b>2140</b>

Abstract (Coffee estimates)

S. No	Year	Labour	Material	Total Cost (NREGS)
1	1st Year	12880	440	13320
2	2nd Year	1450	740	2190
3	3rd Year	1350	740	2090
4	4th Year	1400	740	2140
Grand Total		17080	2660	19740
		87%	13%	

**Annexure V**  
**Coffee Project Cost**

				TRICOR					NREGS						
Sl.No	coffee plantation unit cost		Year	Nursery			Shade Plantation	Total	Coffee plantation						Grand Total
	Year	Unit cost (Rs.)		Shade Nursery	Raising Coffee Nursery	Pepper Nursery			1st year (20000) acres	2nd year (20000) acres	3rd year (20000) acres	4th year (20000) acres	5th year (20000) acres	Total	
1	1st Year	13320	2009-10	17.4	216.0	19.0	871.2	1124	2664.0					2664.04	3788
2	2nd Year	2190	2010-11	17.4	216.0	19.0	871.2	1124	438.0	2914.0				3352.04	4476
3	3rd Year	2090	2011-12	17.4	216.0	19.0	871.2	1124	418.0	768.0	2914.0			4100.05	5224
4	4th Year	2140	2012-13	17.4	216.0	19.0	871.2	1124	428.0	678.0	768.0	2914.0		4788.06	5912
5			2013-14	17.4	216.0	19.0	871.2	1124		668.0	678.0	768.0	2914.0	5028.03	6152
											668.0	678.0	768.0	2114.01	2114
												668.0	678.0	1346.01	1346
													668.0	668.00	668
	<b>Total</b>	<b>19740</b>		<b>87</b>	<b>1080</b>	<b>95</b>	<b>4356</b>	<b>5618</b>	<b>3948</b>	<b>5028</b>	<b>5028</b>	<b>5028</b>	<b>5028</b>	<b>24060.2</b>	<b>29678</b>



